

ACC NR: AP6034026

SOURCE CODE: UR/0080/66/039/010/2236/2243

AUTHOR: Gordeyeva, L. Ya.; Kocherginskiy, M. D.; Pen'kova, L. F.

ORC: none

TITLE: On minimizing self-dissolution of zinc electrode in zinc-air cells with alkali electrolyte

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 10, 1966, 2236-2243

TOPIC TAGS: electrolytic cell, battery component, zinc air cell, zinc electrode, dry cell, electrode design, zinc

ABSTRACT: Specifications concerning purity, particle size, and amalgamation of zinc powder and composition of the paste for the zinc electrode, also concerning the purity of the alkali electrolyte, were developed as a result of experiments which were described. The purpose of the experiments was to minimize the rate of dissolution of zinc at the electrolyte-air interface in the stored or operating zinc-air battery of the "VOSTOK" type, which was developed in the past few years for radio power supply. The specifications developed were checked in discharge tests of the sealed individual cells and battery packs over a period of 1200 hr at a rate of 4 hr per day. Both the plate and filament batteries were tested, freshly made or stored for 15 months. The new battery pack of the "VOSTOK" type is 3.5 times lighter and

Card 1/2

UDC: 541.136

ACC NR: AP6034026

3 times smaller in volume than the serial pack of the zinc-salt-manganese system of equal capacity. Thanks for consultation 09/18/2001 exp CIA-RDP86-00513R000723510008-5  
Orig. Amt has 3 figures, 3 tables, and 6 formulas. [WA-100]

SUB CODE: 10/ SUBM DATE: 26Jul64/ ORIG REF: 016/

Card 2/2

L 05795-0, 133-2/EWT(1) DS

ACC NR: AP6030579

SOURCE CODE: UR/0413/66/000/016/0058/0058

INVENTOR: Kocherginskiy, M. D.; Nen'kova, L. F.; Kalachev, S. L.;  
Lidorenko, N. S.

24

B

ORG: none

TITLE: Rechargeable disc shaped alkali galvanic cell. Class 21, No. 184948.  
(announced by All-Union Scientific Research Institute of Power Sources (Vsesoyuznyy nauchno-issledovatel'skiy institut istochnikov toka))SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966,  
58

TOPIC TAGS: galvanic cell, rechargeable galvanic cell

ABSTRACT: An Author Certificate has been issued describing a rechargeable disc shaped, alkali-galvanic cell with a negative zinc electrode a positive manganese dioxide electrode and a thick electrolyte diaphragm (see Fig. 1). To improve the electrical ratings, the cell is provided with a casing having a symmetrical lug along the inside perimeter on which the diaphragms rest with the negative electrode between them, while the positive electrodes are arranged above the diaphragm.

Card 1/2

UDC: 621.352.7

ACC NR: AP6030579

APPROVED FOR RELEASE: 09/18/2001  
Orig. art. has: 1 figure. (Translation)

CIA-RDP86-00513R000723510008-5

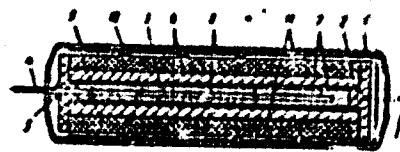


Fig. 1. Rechargeable alkali-galvanic cell.  
 1—Casing; 2—casing lug;  
 3—negative electrode; 4—negative current lead; 5—casting compound;  
 6—diaphragm; 7—auxiliary diaphragm; 8—positive electrode;  
 9—positive current lead;  
 10—depressions of positive current lead; 11—plastic film.

SUB CODE: 09/ SUBM DATE: 03Jun65/

Card 2/2 295

KOCHERGINSKIY M. D.  
USSR/Chemistry

Card 1/1

Authors : Kocherginsky, M. D., and Lukovtsev, P. D.  
Title : Polarization of a Porous Manganese Oxide Electrode made of a  
Manganese-Zinc Element.  
Periodical : Zhur. Fiz. Khim. Vol. 28, Ed. 4, 661-670, Apr 1954  
Abstract : Experimental methods used for measuring the potential of manganese  
dioxide, and the drop in voltage in cells and a porous manganese  
oxide electrode, and calculations for a uniform distribution of  
voltage in manganese-zinc agglomerates. Nine references; tables;  
graphs.  
Institution : .....,  
Submitted : June 16, 1953

KOCHEROVSKIY, M.D.; LOKOVSKY, P.D.

Reply to G.O. Coleman. Zhur.fis.khim. 29 no.7:1325 J1 '55.  
(XLLA 9:3)  
(Electrodes) (Coleman, G.O.)

INVENTOR: Sobolevskiy, M. D., Pen'kova, L. P., Azimova, N. V., Shcheglyayeva, V. V.

TITLE: Electrolyte-paste for air-zinc batteries. Class 4 Inv. 216, 10 sub  
No. 152670

SOURCE: Byul. izobreteniij i tovarnykh znakov, no. 2, 1963, 14

TYPE: dry battery, electrolyte paste

INVENTION: use of concentrated solutions of caustic potash of density not less than 1.16 and (or) caustic soda not less than 1.40 in any proportion as an electrolyte, and starch and (or) flour amounting to not less than 400 grams per liter of electrolyte as a thickening agent for air-zinc batteries, in order to increase the service life of the batteries and their shelf life prior to use. Original art. has 1 figure (see Enclosure 1) [Abstracter's note: complete translation]

ASSOCIATION: none

SUBMITTED: 26 Mar 62

SUB CODE: E

DATE ACQ: 28 May 63  
NO REF Sov: 000

ENCL: 01  
OTHER: 000

Card 1/4

ACC NR: AP6034026

SOURCE CODE: UR/0080/66/039/010/2236/2243

AUTHOR: Cordseyeva, L. Ya.; Kocherginsky, M. D.; Pen'kova, L. F.

ORG: none

TITLE: On minimizing self-dissolution of zinc electrode in zinc-air cells with alkali  
electrolyte

SOURCE: Zhurnal priklednoy khimii, v. 39, no. 10, 1966, 2236-2243

TOPIC TAGS: electrolytic cell, battery component, zinc air cell, zinc electrode,  
dry cell, electrical design, zinc

ABSTRACT: Specifications concerning purity, particle size, and amalgamation of zinc powder and composition of the paste for the zinc electrode, also concerning the purity of the alkali electrolyte, were developed as a result of experiments which were described. The purpose of the experiments was to minimize the rate of dissolution of zinc at the electrolyte-air interface in the stored or operating zinc-air battery of the "VOSTOK" type, which was developed in the past few years for radio power supply. The specifications developed were checked in discharge tests of the sealed individual cells and battery packs over a period of 1200 hr at a rate of 4 hr per day. Both the plate and filament batteries were tested, freshly made or stored for 15 months. The new battery pack of the "VOSTOK" type is 3.5 times lighter and

Card 1/2

UDC: 541.136

ACC NR: AP6034026

3 times smaller in volume than the serial pack of the zinc-salt-manganese system of equal capacity. Thanks for consultations were expressed to Professor I. A. Iofa. Orig. art. has: 3 figures, 3 tables, and 6 formulas. [WA-100]

SUB CODE: 10/ SUBM DATE: 26Jul64/ ORIG REF: 016/

Card 2/2

ASCHERGINSKIY, M.M.  
LAPIN, O.P.; KRUSHCHEV, M.S.; GORODINSKAYA, Ye.A.; LOCHERGINSKIY, M.M.  
TELYANKOVICH, V.S.; SHAFMAN, S.D.; OSTANOV, Kh.

Improving the smelting of boron carbide. Prom.energ. 12 no.8:17-18  
Ag '57. (MINA 10:10)  
(Boron carbides) (Smelting)

KOCHERGOV, V.N.; SHAPIRO, M.S.

One-pipe system in the simultaneous gathering of oil and gas in  
fields of the Stavropol Territory. Nefteprom.delo no.2:27-30  
'64. (MIRA 17:4)

1. Institut "Krasnodarnefteproekt".

GEMMERLING, A.V., kandidat tekhnicheskikh nauk; TROFIMOV, V.I., kandidat tekhnicheskikh nauk; MILETKOVSKIY, I.Ye., kandidat tekhnicheskikh nauk; ~~KOCHERHOVA, Ye.Ye.~~, kandidat tekhnicheskikh nauk; KULYAKIN, B.I., laureat Stalinskoy premii, inzhener, redaktor; ROSTOVTSIEVA, M.P., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor.

[Investigation of the work of framed structures] Issledovanie raboty ramnykh konstruktsii. Moskva, 1955. 136 p. (Moscow. Tsentral'nyi nauchno-issledovatel'skii institut promyshlennykh soorushenii. Nauchnoe soobshchenie no.21). (MLRA 9:2)  
(Structural frames)

SOV/124-57-4-5018

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 151 (USSR)

AUTHOR: Kochergova, Ye. Ye.

TITLE: The Material Properties of Bloom and Slab Samples (Svoystva materiala obrazsov blumsov i slyabov)

PERIODICAL: V sb.: Issledovaniya po stal'nym konstruktsiyam. Moscow, 1956, pp 201-211

ABSTRACT: Bibliographic entry

Card 1/1

KOCHTERGOVA, Ye.Ye.,kand.tekhn.nauk

Defects in crane-rail beams and measures for prolonging their life.  
Stroi.prom. 16 no.4:21 Ap '58. (MIRA 11:4)  
(Cranes, derricks, etc.)

KOCHEROVA, Ye.Ye., kand.tekhn.nauk

Effect of the depth of welding on the strength of crane beams  
in joining their webs with the upper belts. Prom. stroi. 38  
no. 8:55-59 '60.  
(MIRA 13:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut stroitel'stykh  
konstruktsiy Akademii stroitel'stva i arkhitektury SSSR.  
(Cranes, derricks, etc.) (Electric welding)

KOCHAROVA, Ye.Ye. kand.tekhn.nauk

Vibration strength of joints in low-alloy steel. Trudy  
TSNIISK no.4:211-226 '61. (MIRA 15:2)  
(Steel alloys—Welding)  
(Welding—Testing)

TARAN, V.D., prof., doktor tekhn.nauk; KOCHERGOVA, Ye.Ye., kand.tekhn.  
nauk

Testing the strength of welded joints of rolled semifinished  
assembly pieces. Mont. i spets. rab. v stroi. 23 no. 1:14-16  
Ja '61.  
(MIRA 14:1)  
(Tanks)

KOCHERGOVA, Ye.Ye., kand.tekhn.nauk

Determining stresses in the columns of the frame of the  
"Ukraina" hotel building during construction and operation.  
Trudy TSMNIISK no.13;200-213 '62. (MIRA 15:11)  
(Moscow—Hotels, taverns, etc.)  
(Columns, Iron and steel)

KOCHERGOVA, Ye.Ye., kand.tekhn.nauk

Function under shearing strains of unfinished bolts made of St. 3  
St. 5 and 350S steel. Prom. stroi. 40 [i.e. 41.] no.3:46-48  
'63. <sup>47</sup>  
(MIRA 16:3)

1. Tsentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh  
konstruktsiy Akademii stroitel'stva i arkhitektury SSSR.  
(Bolts and nuts--Testing)

ACCESSION NR: AT4010744

8/2639/63/000/002/0138/0142

BR

AUTHOR: Kochergova, Ya. Ya. (Candidate of technical sciences)

TITLE: Fatigue strength of welded joints in aluminum alloy AV-T1

SOURCE: ASIA SSSR. Institut stroitel'nykh konstruktsiy. Stroitel'nye konstruktsii  
iz aluminiyevkh splavov, no. 2, 1963, 136-142TOPIC TAGS: aluminum alloy, alloy AV-T1, loading, fatigue strength, welding, cyclic  
loading, aluminum

ABSTRACT: For an application of aluminum alloys in civil structures subjected to cyclic loads, data are needed on fatigue strength of specimens with a rolled surface and of welded and riveted joints. Fatigue tests were carried out at TANISK, ASIA SSSR on base material and welded joints of the Al-Mg-Si alloy AV-T1 recommended for welded structures because of its relatively high strength and satisfactory weldability. Test specimens were cut from a 10 mm thick AV-T1 sheet along its rolling direction, and weldability tests were carried out at the welding section of the central laboratory for metallic structures of TANISK. Five types of specimens were prepared (see also Figure 1 of the Enclosure);

Card: 1/5

ACCESSION NR: A74010744

series 1 - reference specimens of as-rolled, plain plate;  
series 2 - specimens with a hole for stress concentration;  
series 3 - specimens with a transverse V-type butt-weld made by the automatic MIG process with weld reinforcement removed flush;  
series 4 - specimens as in series 3, but in the as-welded condition;  
series 5 - specimens with a double-lapped joint fillet-welded from both sides by the manual TIG process.

The tests were carried out on a testing machine of the GRM-1 type in cyclic tension at a stress ratio 0.14. Test results were evaluated by statistical methods and plotted in double-logarithmic coordinates. Table 1 of the Enclosure shows the fatigue strength of specimens at  $2 \times 10^6$  cycles. The same table shows, for comparison, test results of specimens of the alloy AMg6 obtained at LISHI and of the alloy 618-T from American tests. It was concluded that specimens of AV-T1 have a similar fatigue strength as specimens of 618-T, while specimens of AMg6 show higher fatigue strength values for the welded joints. In addition it was found that alloy AV-T1 is more sensitive to cyclic loading than steel of the type St 3. The ratio of the endurance limit at the given loading to the static strength is 0.3 for AV-T1 alloy, and 0.5 for steel. The ratio of the fatigue strength at  $2 \times 10^6$  cycles of welded joints to the fatigue strength of plain plate of AV-T1 under the same conditions was found to be:

Card 2/8

ACCESSION NR: AT4010744

0.42 for butt-welded joints as welded,  
0.6 for butt-welded joints with reinforcement removed, and 0.24 for longitudinal  
fillet welds. Orig. art. has: 6 figures and 2 tables.

ASSOCIATION: Institut stroitel'nykh konstruktsiy, ASIA SSSR (Institute of Structural  
Construction, ASIA, SSSR)

SUBMITTED: 00

DATE ACQ: 17Jan84

ENCL: 02

SUB CODE: M.M

NO REF Sov: 003

OTHER: 001

Card

3/8

ACCESSION NR: AT4010744

ENCLOSURE: 01

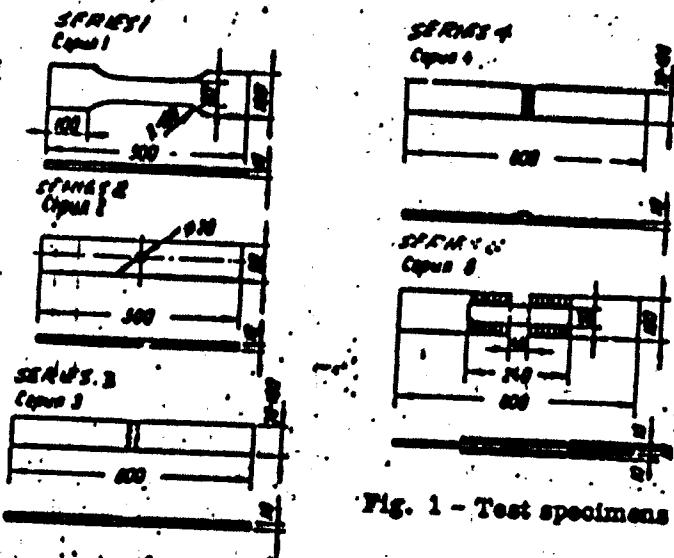


Fig. 1 - Test specimens

Card 4/8

ACCESSION NR: AT4010744

ENCLOSURE, 02

TABLE 1 - Fatigue strength in kg/mm<sup>2</sup> at  $2 \times 10^6$  cycles for tension-to-tension axial loading at a stress ratio 0.14 (Combined from text and Table 1 of orig. art.)

Type of specimen	TsNIEK of ASIA SSSR data for AV-T1 alloy with 33 kg/mm <sup>2</sup> U.T.S.	LHI data for AMg6 alloy with 35.8 kg/mm <sup>2</sup> U.T.S.	American data (1947) for 515-T alloy with 29.5 kg/mm <sup>2</sup> U.T.S.
1 Plain plate	9.8	9.5	11
2 Plate with hole	6.8	6.0	—
3 Butt-welded joint, reinforcement removed	6.0	8.6	—
4 Butt-welded joint, as welded	4.2	6.6	4.8
5 Joint with trans- verse fillet weld	—	5.0	4
6 Welded Tee joint	—	—	3.8
Card 5/6	2.4	8.17	2.1

BALDIN, V.A., doktor tekhn.nauk; KOCHERGOVA, Ye.Ye., kand.tekhn.nauk

Beams made of two sorts of steel. Prom.stroi, 42 no.31:20-23 N  
'64. (MIRA 1618)

LEVINSOHN, Yakov Iosifovich [deceased]; KOCHERIGIN, S.A., redaktor;  
ZUDAKIN, I.M., tekhnicheskiy redaktor.

[The aerodynamics of high speed; gas dynamics] Aerodinamika bol'shikh skorostei; gasovaya dinamika. Moskva, Oborongiz, 1948. 336 p.  
[Photostat]  
(Aerodynamics)

KOCHERIN, A.A.) SOKOLOV, B.W.

New method of joining tire tubes without the use of reinforcing belts.  
Kauch.1 res. 20 no.3:46-50 Mr '61. (NKRA 14:3)

1. Jaroslavskiy shinnyy zavod.  
(Tires, Rubber)

KOCHERINA, Ye. I.

"Contributions from the Melouzensk solonetz field station report for 1935,"  
I. N. Antipov-Kersteyev, N. I. Savvinov, V. N. Filippova, E. I. Kocherina, B. A.  
Piunovskiy, I. P. Serdobolskiy and V. A. Solov'yev. Trans. Comm. on Irrigation,  
Acad. Sci. USSR, Bull. No. 9, 11-256, 1937.

Extensive chem. and mineralogical data on the material and on the water  
ext. of the soil complex of the Transvolga region are presented graphically and  
in numerous tables. The variations in the chem. make-up, the extensive solonetz  
varieties found there and the effect of chem. treatment on the Na and Ca in the  
exchange complex and general compn. of soil, with reference to crop yields are  
also given and discussed.

KCCHERINA, Ye. I.

Soils - Analysis

Comparative study of methods for mechanical analysis of soils. Pochvovedenie No. 7,  
1952

9. Monthly List of Russian Accessions, Library of Congress, September 1952, Uncl.  
2

KOCHERINA, N.I.

Physical properties of terrace soils of the Kytuluk River, Kuybyshev Region.  
Trudy Pochvennogo Inst. im. V.V. Dokuchaeva, Akad. Nauk S.S.R. 37, 242-  
311 '52.  
(QA 47 no.21:11626 '53) (KLLA 6:3)

BABIN, Leonid Vinar'yevich; KOCHETOV, V., red.; MURAKAYEVA, A.,  
red.

[Uzbekistan; a concise manual and guidebook] Uzbekistan;  
kratkii spravochnik-putesvoditel'. Tashkent, Gosizdat UzSSR,  
1963. 227 p.  
(MIIA 17:7)

SMIRNOV, Sergey Mikhaylovich, kand. tekhn. nauk, dots.; GILVIN,  
Vladislav Vol'demarovich; YELIN, Al'bert Vasil'yevich;  
KOCHEROV, Anatoliy Vasil'yevich. Prinimali uchastiyu:  
TSAREVA, T.I.; EYGENFOT, V.M.; YEROFEYEV, A.V., kand.  
tekhn. nauk dots., retsensent; SAKHAROV, Ye.V., st. pre-  
pod., retsensent; MINAYEVA, T.M., red.; FYATNITSKIY,  
V.N., tekhn. red.

[Laboratory work on the course "Principles of automatic  
control and the automation of production processes."] La-  
boratornyi praktikum po kursu "Osnovy avtomatiki i avto-  
ratizatsii proizvodstvennykh protsessov." [By] S.M. Smirnov  
i dr. Moskva, Gizlegprom, 1963. 322p. (MIRA 17:3)

NOVIKOV, B.P.; KHVAIENSKAYA, L.B.; METSENKO, L.A.; KOGOLOV, I.V.

Experience in the control of erysipeloid in a meat combine. Zhur. mikrobiol., epid. i immun. 41 no.12:110-112 D 1964.

(MIRA 18:3)

1. Ivanovskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya.

KOCHEROV, N.P.; FEDORENKO, N.P.

Economic features of the methods of polystyrene manufacture.  
Plast.massy no.1:53-55 '63. (MIRA 16:2)  
(Styrene polymers)

KOCHEROV, N.P.; FEDORENKO, N.P.; ANICHKINA, N.M.

Economic efficiency of the use of plastics in the manufacture of  
home refrigerators. Plast.massy no.10:43-45 '63. (MIRA 16:10)

BOGDANOV, Boris Vladimirovich; DUBININ, N.P., inzh., retezant; KOCHEROV,  
L.P., inzh., retezant; PRMOVA, Ye.M., red.; KOROVENKO, Yu.N.,  
tekhn. red.

[Seagoing and roader barges; design and construction] Morskie i  
reidovye barchi; proektirovaniye i konstruktsiya. Leningrad, Sud-  
promgiz, 1963. 294 p.  
(Barges--Design and construction)

KOCHEROV, N.P.; PERFILOV, N.A.

Changes in the tracks of  $\beta$ -particles and electrons taking place in the development of nuclear emulsions. Zhur. nauch. i prikl. fot. i kin. 8 no.6:416-419 N-D '63.

(MIRA 17:1)

KOCHEROV, N.P.; PERFILOV, N.A.

Measuring photolytic silver amounts in emulsions by means of  
activation analysis. Zhur. nauch. i prikl. fot. i kin. 9 no.5:  
360-363 S-0 '64.  
(MIRA 17:10)

KOCHEROV, N.P.; FEDORENKO, N.P.; MARKOVA, N.M.

Economics of the production of impact resistant polystyrene plastics.  
Inst. massy no.4:1-4 '65.  
(MIRA 18:6)

KOCHEROV, Nikolay Pavlovich; GRISHINA, Tat'yana Mikhaylovna;  
SOMINSKIY, V.S., red.

[Economic efficiency of the use of polyolefins and  
polystyrene plastics in the manufacture of machinery]  
Ekonomicheskaya effektivnost' primeneniia poliolefinov  
i polistirol'nykh plastikov v mashinostroenii. Lenin-  
grad, 1965. 31 p. (MIRA 18:5)

KOCHEROV, P.N., insh.; TISHKOVETS, I.V., insh.

Experience in constructing ice-breaking tugboats. Sudostroenie  
24 no.8:54-58 Ag '58.  
(Ice-breaking vessels) (Tugboats) (MIRA 11:10)

KOCHEROV, P. N., insh.

Experience in using large slips in building small and medium-sized ships. Sudostroenie 25 no. 2159-60 P '59. (MIRA 12:4)  
(Shipbuilding)

18(6)

AUTHORS: Kocherov, P. V., Gertman, Yu. M., Gel'd, P. V. 30V/78-4-5-27/46

TITLE: The Formation Heat of the Alloys of Calcium With Aluminum  
(Teploty obrazovaniya splavov kal'tsiya s aluminimiem)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 5,  
pp 1106-1112 (USSR)

ABSTRACT: The formation heat of the pure intermetallic compounds of calcium with aluminum ( $\text{CaAl}_2$  and  $\text{CaAl}_4$ ) was calculated. The alloy was produced from the purest electrolytic twice distilled calcium and electrolytic aluminum. Melting of the components took place in the purest argon atmosphere. By means of radiostructural and metallographical investigations the composition of the alloy was determined and the results are shown by table 1. Determination of the formation heat of the alloys was carried out by means of an ordinary isothermal calorimeter, viz. by the differential method as follows: First the combustion heat of the alloy, and then

Card 1/4

SOV/73-4-5-27/46  
The Formation Heat of the Alloys of Calcium With Aluminum

the equivalent combustion heat after composition of the mechanical mixtures of calcium and aluminum was investigated. From the difference between the average values the formation heat of the respective alloy was calculated. The accuracy of the method is 1.0 - 1.5 kcal/g-at. The combustion method, the oxidation heat of the purest metals, as well as the six alloys and their corresponding mechanical mixtures were investigated. The results obtained by calorimetric determinations carried out by the combustion method are shown by table 2. The combustion heat of the alloys and the mechanical mixtures of calcium and aluminum are shown by figure 3. For  $\Delta H_{Al_2O_3}$

$\sim 399$  kcal/g-mol  $Al_2O_3$  was found. This value agrees well with data found in publications;  $\Delta H_{Al_2O_3} = -400 \pm 2.0$  kcal/g-mol

Card 2/4

$Al_2O_3$ . The dissolution heat of calcium and aluminum and of their alloys in 5 n hydrochloric acid was investigated. The

SOV/78-4-5-27/46  
The Formation Heat of the Alloys of Calcium With Aluminum

results obtained are shown by table 3 and figure 4. Figure 5 is a graphical representation of the formation heats of calcium- and aluminum alloys of various composition according to the combustion- and dissolution method. The experimentally obtained values agree well with those found in publications. The following values were found for the formation heat of the intermetallic compounds  $\text{CaAl}_2$  and  $\text{CaAl}_4$ :

$$\Delta H_{\text{CaAl}_2}^{22.5^\circ} = -17.5 \pm 1.5 \text{ kcal/g-at and}$$

$$\Delta H_{\text{CaAl}_4}^{22.5^\circ} = -10.3 \pm 1.0 \text{ kcal/g-at.}$$

There are 5 figures, 3 tables, and 13 references, 2 of which are Soviet.

Card 3/4

P.  
KOCHEROV, V. V.; GERTMAN, Yu. N.

Heat of formation of fused calcium - aluminum systems. Trudy Ural.  
politekh. inst. no. 92:135-140 '59. (KIRA 13:12)  
(Heat of formation) (Aluminum)

KOZHEMOV, P.V.; GEL'D, F.I.

Elasticity of calcium vapors above fused calcium - aluminum systems.  
Trudy Ural. politekhn. inst. no.92:141-146 '59. (MIFI 13:12)  
(Aluminum alloys) (Vapor pressure)

KOCHEROV, P. V., Cand Tech Sci (diss) -- "The thermochemistry of calcium-aluminum alloys". Sverdlovsk, 1960. 14 pp (Min Higher and Inter Spec Educ RSPSR, Ural Polytech Inst im S. M. Kirov), 150 copies (KL, No 15, 1960, 135)

187540

29036

S/081/61/000/018/007/027  
B104/B101

AUTHORS: Gel'd, P. V., Kocherov, P. V.

TITLE: Regulation of liquid calcium - aluminum alloys

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 18, 1961, 51, abstract  
18B363 (Sb. "Stroyeniye i svoystva zhidk. metallov". M.,  
1960, 194 - 199)

TEXT: The enthalpy of two Ca-Al alloys containing 42.55 and 24.3% by weight of Ca was investigated as a function of temperature, in the range of 200 - 1200°C. According to its composition, the first of these alloys is similar to the congruently melting compound  $\text{CaAl}_2$  (melting point 1079°C); the second is similar to the incongruently melting compound  $\text{CaAl}_4$  (melting point 700°C). Results of measurements were compared with quantities calculated according to the additivity rule. To explain the divergences obtained it is assumed that during the melting process of the intermetallic compounds and during superheating a considerable change of the potential energy of the atoms occurs. This is caused by a change of the degree of  $\chi$

Card 1/2

KOCHEROV, P.V.; GEL'D, P.V.

Equilibrium of gaseous calcium with Ca-Al alloys. Izv. vys. ucheb. zav.; chern. met. no.2:5-9 '60. (MIRA 15:5)

1. Ural'skiy politekhnicheskiy institut.  
(Vapor-liquid equilibrium)  
(Intermetallic compounds)

S/180/60/000/006/027/030  
E201/E391

AUTHORS: Gel'd, P.V. and Kocherov, P.V. (Sverdlovsk)  
TITLE: Ordering of Liquid Alloys of Calcium and Aluminium  
PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye  
tekhnicheskikh nauk, Metallurgiya i toplivo,  
1960, No. 6, pp. 142 - 145

TEXT: The authors report measurements of the temperature dependence of the enthalpy of two Ca-Al alloys containing 42.55 and 24.3% Ca by weight. The first was close in its composition to  $\text{CaAl}_2$  (melting point at  $1079^{\circ}\text{C}$ ) and the second could be approximately represented by  $\text{CaAl}_4$  (melting point at  $700^{\circ}\text{C}$ ). Enthalpies were measured using a high-temperature calorimeter described earlier (Ref. 3). Fig. 1 gives the temperature dependence of enthalpy for  $\text{CaAl}_2$  (Fig. 1a) and  $\text{CaAl}_4$  (Fig. 1b). The latent heat of fusion of  $\text{CaAl}_2$  (11.8 - 13.5 kcal/g-mole) is considerably greater than

Card 1/2

KOCHEROV, P.V.; GEL'D, P.V.

Some peculiarities of the melting process of congruent calcium  
aluminide. Trudy Ural. politekh. inst. no.94:174-178 '60.  
(MIRA 15:6)  
(Aluminum-calcium alloys)

5.2610

8/078/60/005/008/004/010  
B004/B052 82324AUTHORS: Kocherov, P. V., Gol'd, P. V.TITLE: Enthalpy and Dissociation Vapor Pressure of CaAl<sub>2</sub>PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 8,  
pp. 1774-1782

TEXT: On the basis of previous papers on CaAl<sub>2</sub> and CaAl<sub>4</sub> (Refs 1, 2), the authors investigated the influence of disordering of CaAl<sub>2</sub> on the physical data of this compound. Two alloys were produced for measuring the enthalpy. One (I) contained 43.7 weight% of Ca, thus corresponding to CaAl<sub>2</sub> with a content of 2% of free metallic Ca. The second one (II) contained 24.3 weight% of Ca, i.e., it consisted of a solid solution of 11% of Ca in 89% of CaAl<sub>4</sub>. For measuring the vapor pressure, alloys of 28.90, 33.41, 59.48, 55.36, 48.93, and 46.96 weight% of Ca were produced. The temperature dependence of the enthalpy was measured in an adiabatic calorimeter of the Skuratov system, and has already been described in previous papers

Card 1/3

Enthalpy and Dissociation Vapor Pressure of  
 $\text{CaAl}_2$

8/076/60/005/008/004/018  
B004/B052 02324

of solid  $\text{CaAl}_2$ . This proved to be due to the greater heat of formation of solid  $\text{CaAl}_2$  from solid Ca and solid  $\text{CaAl}_4$ , i.e., the stronger bond between Ca and Al atoms in the congruently melting compound  $\text{CaAl}_2$ . There are 5 figures, 2 tables, and 12 references: 8 Soviet and 4 US. *X*

SUBMITTED: May 22, 1959

Card 3/3

L-1729-66 RPT(s)/RPT(t)/ETI LTP(s) JN/MW/JG  
ACC FILE #00010007 SOURCE CODE: UN/0000/00/000/010/2004/2000

AUTHOR: Masharov, P. V.; Gol'd, P. V.; Dunn, D. A.

61

RPT SOURCE: Tr. Ural'skogo politekhn. in-ta, zh. 140, 1965, 139-141

B

TITLE: Kinematic viscosity in liquid alloys of the iron-silicon system

SOURCE: Ref. zh. Fizika, No. 10000 1 37 27

TOPIC TAGS: silicon containing alloy, activation energy, entropy, isobaric potential

TRANSLATION: The kinematic viscosity of the phase components of the iron-silicon system ( $Fe_2Si$ ,  $Fe_3Si_1$ ,  $Fe_5Si_3$ ,  $FeSi_2$ ) and alloys containing 62 and 89% Si was studied. The experimental data obtained permits the calculation of the activation energies, changes in isobaric-isothermal potential and changes in activation entropy for viscous flow of melts. From this, one can make conclusions concerning the microinhomogeneous structure of iron-silicon melts.

SUB CODE: JN

Card 1/1 a/s

L 05900-67 EVP(k)/EWT(m)/EWP(t)/ETI IJP(c) JD  
ACC NR: AR6017478 SOURCE CODE: UR/0137/66/000/001/A005/A005

AUTHOR: Muradov, V. G.; Kocherov, P. V.

TITLE: Measuring the pressure of saturated calcium vapor above Al-Ca alloys in the  
region of the intermetallic compound  $Al_2Ca$

17 17

SOURCE: Ref. zh. Metallurgiya, Abs. 1A30

REF SOURCE: Uch. zap. Ul'yanovskiy gos. ped. in-t, v. 18, no. 5, 1964, 78-80

TOPIC TAGS: calcium, vapor pressure, aluminum base alloy, calcium alloy, intermetallic compound

ABSTRACT: Aluminum-calcium alloys were molten in a vacuum induction furnace in a purified argon atmosphere at pressures of 400-500 mm Hg and temperatures above 700°C. The diffusion method was used for determining the pressure of saturated calcium vapor. The vapor pressure above an alloy containing 41% Ca was measured in the 700-650°C region where  $Al_2Ca$  is in equilibrium with solid  $Al_4Ca$  rather than with the melt. It is assumed that  $Al_4Ca$  crystals are stable even in the liquid phase up to 850°C. Transition to an alloy with 43% Ca causes a smooth increase in calcium vapor pressure by approximately  $\frac{1}{3}$  an order of magnitude. This indicates that there is a definite region of homogeneity in the compound  $Al_2Ca$  where the vapor pressure is a function of both temperature and alloy composition. The vapor pressure above an alloy with 50% Ca co-

Card 1/2

UDC: 669.71'891'5;541.12

L 05206-67  
ACC NR. AR6017478

incides with the pressure above the pure metal in both the liquid and solid phases.  $\ln PCa (41\% Ca) = 9.65 - 13655/T$ ;  $\ln PCa (43\% Ca) = 8.33 - 11880/T$ ;  $\ln PCa (50\% Ca) = 8.18 - 9086/T$ . The heat of sublimation for calcium in alloys with 41 and 43% is 58.5 kcal/hr-atom while the heat of sublimation for an alloy with 50% Ca is the same as for the pure metal. D. Kasheva. [Translation of abstract]

SUB CODE: 20744

kh

Card 2/2

ACC NR. AR6013658

SOURCE CODE: UR/0038/63/000/010/E009/E009

AUTHOR: Baum, B. A.; Gel'd, P. V.; Kosherov, P. V.; Kayshev, E. A.

TITLE: Viscosity of liquid chromium-silicon alloys

SOURCE: Ref. zh. Fizika, Abs. 10E64

REF SOURCE: Tr. Ural'skogo politekhn. in-ta, ab. 144, 1965, 136-139

TOPIC TAGS: fluid viscosity, silicon containing alloy, iron base alloy, chromium base alloy, ~~11(011) 11114L~~

TRANSLATION: Results of a study of the viscosity  $\nu$  of silicon and chromium and its silicides are given. Graphs of  $\nu$  vs alloy temperature are given. The anomalous change in the  $\nu$  of Si and CrSi<sub>2</sub> with increasing temperature ( $\partial^2\nu/\partial T^2 < 0$ ) is explained by changes in the nature of interparticle interaction and in the structure of these alloys. The viscosity properties of chromium-silicon and iron-silicon alloys are compared.

SUB CODE: 11

Card 1/1

SHEVCHENKO, P., prof.; AKHTAMOV, A., dotsent; ARIPOV, S., nauchn. sotr.; PAK, N., nauchn. sotr.; NAVRUZOV, M., zhurnalist; TANKHEL'SON, A., zhurnalist; KOCHEROV, V., red.; BAKHTIYAROV, A., tekhn. red.

[I.P.Pavlov Samarkand State Medical Institute] Samarkandskii gosudarstvennyi meditsinskii institut im. akademika I.P. Pavlova; kratkii spravochnik. Tashkent, Gos.izd-vo Uzbekskoi SSR, 1962. 25 p. (MIRA 16:8)

1. Samarkandskiy gosudarstvennyy meditsinskii institut (for Aripov, Pak).

(SAMARKAND--MEDICAL COLLEGES)

KOCHERBOV, Valerii LEVIN, A.I.; MUKHIM, V.A.

Investigating conditions for the electrolytic refining of copper  
in a nickel-containing electrolyte. Izv. vys. ucheb. zav., tsvet.  
met. 8 no.5:54-58 '65.  
(MIRA 18:10)

1. Ural'skiy politekhnicheskiy institut, kafedra tekhnologii  
elektrokhimicheskikh proizvodstv.

KOZLOV, Vladimir Ivanovich; SON DIN PA [Son Chin-hu]; ISEKHAKOV,  
Rakhmatulla; KOCHERHOV, V.A., red.; ABBASOV, T., tekhn. red.

[Striving for a diversified development of agriculture] V  
bor'be za kompleksnoe razvitiye khoziaistva. Tashkent, Gos-  
izdat UzSSR, 1961. 23 p. (MIRA 15:10)  
(Uzbekistan—Agriculture)

KOCHEROV, V.I.; LETSKIKH, Ye.S.; MUKHIN, V.A.; LEVIN, A.I.

Bath voltage balance and ways of perfecting copper foil production. Izv. vys. ucheb. zav., tovet. met. 7 no.5:39-44  
'64 (MIRA 18:1)

1. Kafedra tekhnologii elektrokhimicheskikh proizvodstv Ural'skogo politekhnicheskogo instituta.

Author : Prisalkov, M.M., Pushkar', Z.G., Arkhipova, A.V.,  
Kocherova, A.N.

Inst : -  
Title APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510008-5"

Orig Pub : Aptech. delo, 1956, No 3, 38-43.

Abstract : It was demonstrated by growing *E. coli*, *Proteus* and *Staphylococci* on meat-peptone media containing 0.5-1% pyramidon, antipyttine or caffeine that multiplication of the organisms was retarded, especially in the presence of pyramidon, and that their sugar fermenting and proteolytic activity was suppressed. It was found that microbes destroyed pyramidon and antipyttine molecules by the utilization of carbon and nitrogen.

Pharm. Inst., Moscow

Card 1/2

USSR/Pharmacology - Toxicology, Anti-inflammatory Agents.

U-6

Abs Jour : Ref Zhur - Biol., No 3, 1958, 13029

Proteus destroyed over one-half of the pyramidon present in the medium in concentrations up to 0.5%.

KOCHEROVA, M.

With the participation of the entire collective. Sov. profsoiuny  
16 no.20:39-41 0 '60. (MIRA 13;11)

1. Predsedatel' komiteta profsoyuna Cheboksarskogo khlopbato-  
bunashnogo kombinata.  
(Cheboksary—Cotton manufacture—Hygienic aspects)

KOCHIKOVA, N.V.

Traumatism and disease control. Tekst.prom. 19 no.8154-56  
Ag '59. (MIRA 13:1)

1. Predsedatel' fabrichnogo komiteta Cheboksarskogo khlopchatobumashnogo kombinata.  
(Cheboksary--Textile workers--Diseases and hygiene)  
(Textile industry--Safety measures)

ABRAMOV, L.T.; AVEROCHKINA, M.V.; KOCHEROVA, N.D.; FILIPPOVA, L.S.,  
red.; VASIL'YEVA, N.N., tekhn.red.

[Antibeaving measures on railroads] Protivopuchimye mero-  
priyatiia na zheleznykh dorogakh. Moskva, Transzheledorizdat,  
1962. 22 p. (MIRA 15:11)

(Railroads—Maintenance and repair)  
(Soil mechanics—Research)

ABRAMOV, L.T., kand.tekhn.nauk; KOCHEROVA, N.D., insh.

Investigating the process of soil bearing. Vest.TSNII MPG  
21 no.6:28-30 '62. (MIRA 15:9)  
(Railroads—~~track~~) (Soil stabilization)

ABRAMOV, L.T., kand.tekhn.nauk; KOCHEROVA, N.D., inzh.; SHIVYAKOV, A.I., inzh.

Efficiency of the measures applied for heaving control. Vest. TSNII MPS  
22 no.1:62-63 '63. (MIRA 16'4)  
(Soil stabilization) (Railroads—Trunk)

POLYAKOV, V.F., inzh.; MIKITIN, V.A., inzh.; RYJIN, V.I., inzh.;  
KOCHEKOVA, V.I.; TOLUBEYEV, Ya.P.; MUDREKOVA, A.V.;  
TSVETKOV, D.; VLADIMIROV, A.N.

Exchange of experience between the enterprises of economic  
councils. Torg. prom. 38 no.4:31-35 '61. (MIRA 14:9)

1. Sverdlovskaya fabrika Izoplit (for Polyakov).
2. Demidovskoye predpriyatiye Gor'kovskogo Soveta narodnogo khozyaystva (for Nikitin).
3. Predpriyatiye Radovitskiy mokh Koskovskogo oblastnogo Soveta narodnogo khozyaystva (for Rysin).
4. Komsomolskoye terrostransportnoye upravleniye Ivanovskogo Soveta narodnogo khozyaystva (for Kocherova, Tolubeyeva, and Mudrenova).
5. Predpriyatiye Sinyavino lensovmash (for Vladimirov).

(test machinery)

SAKHAROVA, M.S., KOCHEROVSKAYA, L. V., FEDOROVA, N. Ye.

Hydroromelite from Gornaya Racha. Vest. Mosk. un. Ser.  
biol., pochv., geol., geog. 14 no.3:149-155 '59.  
(NIMA 13:6)

1. Kafedra mineralogii Moskovskogo universiteta.  
(Georgia—Hydroromelite)

KOCHEROVSKIY, Ye.I. [Kocherovs'kiy, E.I.], vrach

Hypotension. Nauka i zhystia 10 no. 12:47 D '60. (MIRA 14:4)  
(HIPOTENSION)

KOCHEROVSKIY, Ye.I. [Kocherovs'kyi, E.I.], vrach

Hypertension. Nauka i shyttia 11 no. 4:51-52 Ap '61. (MIRA 14:5)  
(Hypertension)

KOCHEROVSKIY, Yu. E.

Kocherovskiy, Yu. E. - "The Characteristics of Diphtheria Bacteria in the City of Tashkent." Tashkent State Medical Inst imeni V. M. Nolstov. Tashkent, 1956 (Dissertation for the Degree of Candidate in Medical Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 116-127

USSR / Microbiology. Microbes Pathogenic for Man and Animals. Bacteria. Root Bacteria. F-4

Abs Jour: Ref Zhur-Biol., 1958, No 17, 76798.

Author : Samsonov, P. F.; Kocherovskiy, Yu. E.

Inst : Not given.

Title : On the Serological Peculiarities of the Produced Diphtheria Rod Strain PW8.

Orig Pub: Med. zh. Uzbekistana, 1957, No 8, 50-53.

**Abstract:** The serological properties of the strain PW8 obtained from the Tashkent Institute of Vaccines and Serums, were studied in comparison with standard strains of the Robinson 1, 2, 3, 4 serotypes, with the 6 Moscow serotype of Delyaginaya, and with diphtheria cultures from patients and carriers. The strain PW8 was agglutinated with all specific type sera only in weak dilutions, not more than

Card 1/2

47

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510008-5" Microbiology. Microbes Pathogenic for Man and Animals. Bacteria. Root Bacteria. F-4

Abs Jour: Ref Zhur-Biol., 1958, No 17, 76798.

**Abstract:** up to 1/4 titer. The overwhelming majority of the strains (84.2%) obtained in Tashkent over a period of two epidemic outbreaks were not agglutinated at all in the antiserum PW8. Thus, the strain PW8, cultivated a long while in artificial mediums, preserved only the toxicity, while its antigenic structure was changed. In the opinion of the authors, for the preparation of diphtheria anatoxin and antitoxic sera, local cultures should also be used as compulsory antigen-strains and not only strain PW8 alone. -- M. Ya. Boyarskaya.

Card 2/2

KOCHENOVSKIY, Yu.E., kand.med.nauk

Critical remarks on V.S.Abagiants's article "Clinical course of angina of different etiology" in Meditsinskii Zhurnal Uzbekistana no.8, 1959. Med. zhur. Uzb. no.2:65-66 P '60. (MIR 15:2)  
(THROAT DISEASES) (ABAGIANTS, V.S.)

8/016/60/000/05/09/079

AUTHOR: Kocherovskiy, Yu. E.

TITLE: Data on the Pathogenesis of Diphtheria. I. The Incidence and  
Etiology of Bacteremia.

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960,  
No. 5, pp. 28 - 30

TEXT: By a study of diphtheria patients admitted to the city isolation hospital, the author tried to determine the incidence of coccal bacteremia during diphtheria, to classify the various species of cocci and to assess their pathogenetic significance in diphtheria. Bacteremia was noted in 27% of the diphtheria cases. This bacteremia may be caused by: Streptococci viridans, Streptococci pyogenes, Streptococci anhemolyticus, Enterococci and Staphylococcus

Card 1/2

8/016/60/000/05/09/079

Data on the Pathogenesis of Diphtheria. I. The Incidence and Etiology of Bacteremia.

albus. There are 13 references, 5 of which are Soviet, 5 German, 2 Czech and 1 English.

ASSOCIATION: Kafedra mikrobiologii i Kafedra infektsionnykh bolezney Tashkentskogo gosudarstvennogo instituta usovershenstvovaniya vrachey (Department of Microbiology and Department of Infectious Diseases at the Tashkent Postgraduate Medical Institute)

SUBMITTED: July 22, 1959



Card 2/2

KOCHEROVSKIY, Yu.E.

Data on the pathogenesis of diphtheria. Report No. 2: Penetration of cocci into the blood and clinical aspects of the disease.  
Zhur. mikrobiol. epid. i immun. 31 no. 10:22-24. 0 '60.

(MIRA 13:12)

1. Iz kafedry mikrobiologii i kafedry infektsionnykh bolezney Tashkentskogo ogusdarstvennogo instituta usovershenstvovaniya vrachey.  
(DIPHTHERIA) (SEPTICEMIA)

MUSABATEV, I.K., prof.; KOCHEROVSKIY, Yu.E., dotsent

The most important results of the research activity of Uzbekistan  
scientists in the realm of infectious pathology for 1959-1960.  
Nauch. trudy uch.i prak.vrach.Uzb. no.3:5-11 '62. (MIRA 16:2)  
(UZBEKISTAN—COMMUNICABLE DISEASES—RESEARCH)

KOCHEROVSKIY, Yu.E.

"Diphtheria" by K.D.Piatkin. Reviewed by Iu.E. Kocherovskii.  
Zhur. mikrobiol., epid. i immun. 33 no.3:138 Mr '62. (MIRA 1514)  
(DIPHTHERIA) (PIATKIN, K.D.)

KOCHEROVSKIY, Yu.E.

Data on the pathogenesis of diphtheria. Report No.3: Microflora of the pharynx and nose and the clinical aspects of diphtheria. Zhur. mikrobiol., epid. i immun. 40 no.4:23-26 Ap '63. (MIRA 17:5)

1. Iz kafedry mikrobiologii i kafedry infektsionnykh bolezney Tashkentskogo instituta usovershenstvovaniya vrachey.

KOCHEROVSKIY, Yu.E.; ABUBAKIROVA, F.Z.

Materials on the pathogenesis of dysentery. Report No.4:  
Significance of the titers of anti-O-streptolysine as an  
index to the participation of streptococci in the etiopathogenesis  
of clinical forms of dysentery. Zhir. mikrobiol., epid. i immun.  
40 no.9:132-133 3'63. (NIHA 17:5)

1. Iz kafedry mikrobiologii i kafedry infektsionnykh boleznykh  
Tashkentskogo gosudarstvennogo instituta usverenleniya  
vrachey.

RECHIN, F. F., FELOROV, D. F. and MATEEV, A. A.

Inst. Microbiology and Epidemiology, Rostov-na-Donu, (-1944-)

"The Dry Vaccine BCG,"

Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 10-11, 1944.

KOVALENKO, P.P., prof.; PEREPECHAY, L.D.; KOCHER'YAN, O.N.

Apparatus for tissue lyophilization. Vest.khir. 86 no.2100-  
102 '61. (MIRA 14:2)

1. Is laboratori komsvirovaniya tkanej kliniki obshchey  
khirurgii (zav. - prof. P.P. Kovalenko) Rostovskogo-na-Donu  
meditsinskogo instituta i Rostovskogo instituta mikrobiologii  
i epidemiologii (dir. - kand.med.nauk A.G. Bliminchenko).  
(TRANSPLANTATION OF ORGANS, TISSUES, ETC.)

POKROVSKAYA, M.P.; KAGANOVA, L.S. [deceased]; VZOKOV, V.I. [deceased];  
KOCHER'YAM, O.N.; GIBANOVA, K.V.; KOTLYAROVA, R.I.; CUTOROVA, N.N.

Anabiosis as a factor in preserving the useful properties of  
microorganisms for a prolonged period. Trudy IIMG no.7:70-95'60  
(CRYPTOBIOISIS) (MICROORGANISMS—DRYING) (MIR 16:8)

KOCHERYGIN, V.A.

Transperitoneal nephrectomy in a case of large hypernephroma. Khir-  
urgia, Moskva 34 no.11:116 N '58.  
(MIA 12:1)

1. Is Nikolo-Petrovskoy rayonnoy bol'nitey Penzenskoy oblasti.  
(KIDNEYS, neoplasms  
adenocarcinoma, surg.; transection, nephrectomy (Rns))

KOCHERYGIN, Yu.I.

The PSh-0,75 platform mounted on a motor chassis. Biul.tekh.-skaz.  
inform. no.6:61-62 '58. (Motortrucks) (MIRA 11:8)

KOCHERYGIN, Yu. I., insh.

Mounted platforms. Trakt. i sel'khospash. no. 2145-47 P '59.  
(NIRA 12:1)  
(Carriages and carts)

KOCHERYGIN, Yu. I.

The PL-0,3 mounted platform. Byul. tekhn. eksp. inform. no.9:67-68  
'59. (MIRA 13:3)  
(Agricultural machinery)

KOCHERYGIN, Yu. I., insh.

Effective utilisation of self-propelled chassis in transportation.  
Trakt. i sel'khozmash. 30 no.6:15 Je '60. (MIRA 13:11)  
(Tractors)

KOCHERYGIN, Yu.I.

Lift hook on a tractor for hauling trailers. Trakt. i  
sel'khozmash, 22 no.2:46-47 F '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhoz-  
nyystvennogo mashinostroyeniya.  
(Tractors)

KOCHERYGIN, Yu.I., inzh.

Standard specifications for connecting agricultural trailers to  
tractors with a 0.6-1.4 ton rating. Trakt. i selkhozmash. 32  
no. 3127-28 Mr '62. (MIRA 15:2)  
(Tractors--Trailers)

KOCHERYGIN, Yu.I.; BUKHARKIN, V.N.

Agricultural loaders. Trakt. i sel'khozmash. 32 no.12 i 41-44 D '62.  
(MIRA 16:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo  
mashinostroyeniya.  
(Agricultural machinery) (loading and unloading)

KOCHFRYGIN, Yu.I., inzh.

Tractor front loaders. Trakt. i sel'khozmash. no.5:44-66 My '64.  
(MIRA 17:6)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut sel'skokhozyaystven-  
nogo mashinostroyeniya.

KOCHERYOIMA, L.P., insh.; LIPOV, Yu.N., insh.

The UZK-250 installation for growing green forage. Trakt. 1  
sel'khozmash. no. 5134-35 My '65. (MIRA 18:6)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut sel'skokhozyay-  
stvennogo mashinostroyeniya.

*KoCHERYGINA,*

Bromate method for the determination of arsenic. I.  
G. Nakhmanson and T. V. Korchugina. Zav. Akad. Nauk, 2, 173-81 (1947).—The effect of acid concn. on the oxidation of As by bromate was studied by measuring the oxidation-reduction potential at the equiv. point of an arsenite-arsenite titration. It was observed that starting at very small concns. of HCl, titration As was oxidized not only by bromate but by free Br as well. The oxidation by free Br increased with the acid concn. up to an acid concn. of approx. 0.3 N. From then on up to an acid concn. of approx. 3 N, oxidation by Br<sub>2</sub> and Br<sup>-</sup> ran concurrently. Above this concn., oxidation by Br increased. Expts. were carried out with Indigo as indicator in the titration of tetravalent As with Br<sub>2</sub>. Further proved soluble at acid concns. of 0.3-4 N. The indicator changed from yellow (at high acid concns. violet) to orange at the equiv. point. This indicator is reversible.

M. Bloch

410-110 METALLURGICAL LITERATURE CLASSIFICATION

LERNER, L.S.; TERESHCHENKOV, A.A.; KOCHERIYSHKIN, I.K.; NEVSKIY, Ye.V.,  
nauchnyy red.; KONTSEVAYA, E.M., red.; PEREDERIY, S.P., tekhn.  
red.

[Organization and methodology of work in electrical engineering  
laboratories] Organizatsiya i metodika laboratornykh rabot po  
elektrotehnike. Moscow, Vses. uchebno-pedagog. inst-vo Prof-  
tehnichat, 1961. 109 p.  
(MIRA 14:8)  
(Electric engineering—Laboratory manuals)

KOCHERYZHENKO, G. V.

AID Nr. 906-5 10 June

TURBULENT BOUNDARY LAYER ON THERMALLY NONINSULATED WING  
(USSR)

Ginzburg, I. P., and G. V. Kocheryzhenko. IN: Lenigrad. Universitet.  
Vestnik, no. 7: Seriya matematiki, mehaniki i astronomii, no. 2, 1953.  
S6-98.

S/043/63/007/002/003/008

An approximate solution is presented of the problem of a turbulent boundary layer on a thermally noninsulated wing or an axisymmetrical body in compressible hypersonic flow. The method is based on two previous papers and requires the assumption that the velocity dependence of total enthalpy in the turbulent region of the boundary layer and in the laminar sublayer can be expressed as a quadratic function of  $v_x$  in the form:

$$H = A_1 + Bv_x + Cv_x^2 \text{ in the turbulent region, and}$$

$$H = H_w + B_1v_x + C_1v_x^2 \text{ in the laminar sublayer.}$$

Card 1/2

AID M. 986-5 10 June

TURBULENT BOUNDARY LAYER [Cont'd]

S/C43/63/007/002/003/008

The velocity profiles are determined, the relationship between friction stress  $\tau_{xy}$  and thickness of momentum loss  $\delta^+$  is described, and expressions for drag and local skin friction coefficient are established. The calculation procedure is outlined for a numerical example of a spherical body with a radius of 20 cm in an air flow of  $M = 20$  with stagnation point-temperature  $T_{\infty} = 7000^\circ$ . The results are plotted in graphs. [ANB]

Card 2/2

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723510008-5

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723510008-5"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510008-5

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510008-5"

GINZBURG, I.P.; KOCHERZHENKOV, G.V.; MORDVINOVA, N.I.

Turbulent boundary layer on a permeable plate. Vest. LGU 19  
no.13:89-102 '64 (MIRA 17:8)

GINZBURG, I. P.; KOCHERYZHENKOV, G. V.

"The turbulent boundary layer on the permeable curvilinear surface."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12  
May 1964.

Sci Res Inst of Mathematics & Mechanics, Leningrad State Univ.